

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 89420204.3

51 Int. Cl.⁵: **B32B 27/00, B32B 27/16,**
B32B 31/10, B32B 33/00

22 Date of filing: 12.06.89

30 Priority: 23.06.88 US 210280

43 Date of publication of application:
27.12.89 Bulletin 89/52

64 Designated Contracting States:
BE CH DE FR GB LI NL SE

68 Date of deferred publication of the search report:
14.11.90 Bulletin 90/46

71 Applicant: **EASTMAN KODAK COMPANY** (a
New Jersey corporation)
343 State Street
Rochester New York 14650(US)

72 Inventor: **Smith, Thomas M. c/o EASTMAN**
KODAK COMPANY
Patent Department 343 State Street
Rochester New York 14650(US)

74 Representative: **Parent, Yves et al**
Kodak-Pathé Département Brevets et
Licences Centre de Recherches et de
Technologie Zone Industrielle
F-71102 Chalon-sur-Saône Cédex(FR)

54 **Abrasion-resistant protective laminates.**

57 Multi-layer sheet materials useful as protective laminates for application to substrates, such as photographic elements, which require the protection of an abrasion-resistant material, are comprised of a strippable carrier (10), an abrasion-resistant layer (12) which overlies the carrier, a structural interlayer (14) which overlies the abrasion-resistant layer, and an adhesive layer (16) which overlies the structural interlayer. The structural interlayer is very thin in relation to the thickness of the carrier, and is permanently bonded to one surface of the abrasion-resistant layer, whereas the carrier is releasably bonded

to the other surface of the abrasion-resistant layer so as to permit it to be stripped away after it has served its purpose. A process for manufacturing the multi-layer sheet material comprises the steps of: advancing the carrier in web form through a coating station at which it is coated with a layer of liquid composition that is curable to a solid form; laminating the structural interlayer to the coated surface of the carrier; curing the liquid layer in situ to a solid form to thereby form an abrasion-resistant layer; and applying an adhesive layer over the surface of the structural interlayer.

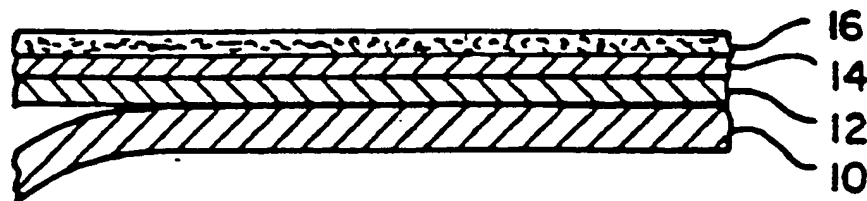


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 89 42 0204

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A, D	US-A-4337107 (ESHLEMAN) * column 3, line 21 - column 6, line 13; figure * ---	1, 2, 5-7, 9, 14	B32B7/06 B32B27/00 B32B27/16 B32B31/10 B32B33/00 B05D1/00
A, D	US-A-4077830 (FULWILER) * column 3, lines 8 - 64; figure 1 * ---	1, 2	
A, D	US-A-4581267 (MILLER) * column 2, line 48 - column 3, line 20 * * column 4, lines 2 - 14 * * column 4, lines 27 - 33; figure 1 * ---	1, 2	
A	EP-A-34392 (KONINKLIJKE EMBALLAGE IND. VAN LEER) * page 1, lines 15 - 34 * * page 2, lines 25 - 28 * * page 3, lines 4 - 14 * * page 8, lines 17 - 36 * -----	1, 14	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B32B G03F1 G03C11 B05D1
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12 SEPTEMBER 1990	Examiner IBARROLA TORRES O.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			